

TPC120-W40

Adopting self-developed industrial motherboards and a sealed aluminum alloy chassis, the whole unit features low power consumption and a compact form factor. Specifically designed for complex medical environments, it ensures long-term stable operation under demanding medical conditions. The product has passed medical-grade tests including EMI, ESD, safety regulations, surge immunity, and radiated emissions. It is widely used in smart terminal equipment for therapeutic, diagnostic, and auxiliary self-service medical applications.

Features

- Protective-grade PCBs ensure EMC and oxidation resistance.
- Intel Celeron J6412 quad-core 2.0GHz processor
- Uses first-tier brand chips and high-quality components.
- Internal anti-vibration and anti-interference design;
- EMI/EMC compliant with industry standards.
- Certified with medical industry test reports.



Model

Product size	12"
Non-touch	TPC120-W4000
Capacitive touch	TPC120-W4010
Resistive touch	TPC120-W4020

I/O Interface



Specification

Screen Parameter

Display type	12" TFT LCD screen
MAX.resolution	1024*768 (4:3)
Viewing angle(H/V)	85/85/85/85 (L/R/U/D)
Luminance (cd/m²)	300 cd/m²
Contrast ratio	800:1

Touch Parameter

Touchscreen	Projection capacitive touch 10-point multi touch	Resistive touch single point	Non-touch
Light transmission	≥88%	≥78%	≥92%
Controller	USB (COM customized)	USB (COM customized)	/

Power Parameter

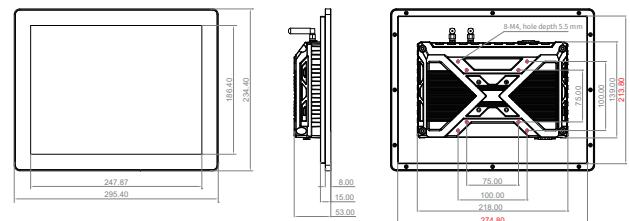
Power input	DC 12V-36V
Power adapter	24V/2.5A

Configuration

CPU	Intel Celeron J6412, Frequency 2.00GHz (Maximum RF: 2.6GHz)	Wi-Fi	Dual Band 2.4GHz+5GHz
Memory/RAM	8GB (Supports up to 32GB)	Bluetooth	BT5.0
Storage	128GB SSD (Optional: 256GB/512GB/1TB/2TB/4TB, etc.)	Watchdog Timer	Support
GPU	Intel UHD Graphics 16 EUs	RTC real time clock	Support
Operating system	WIN10/11, Ubuntu/Centos/Redhat/Debian/almalinux/Kylin/UOS	Timer switch	Support



Dimension



Physical Characteristic

Overall dimensions	W295.4x H234.4x D53mm
VESA	75x75mm, 100x100mm, M4 screw holes
Material	Aluminum alloy
Color	White
Installation	Supports Wall-mounted/Desktop/VESA mount/Suspended mounting Folding mounting/Back hanging, etc.

Interface Parameter

PowerSW	1*PowerSW
Power interface	1*2P Phoenix Terminal (Supports 12-36V)
Phoenix terminal	1*12P Phoenix Terminal (232*1/485*1/NC*6 with 6P interface reserved)
USB	4*USB (2*USB2.0, 2*USB3.0)
CLEAR CMOS	1*CLEAR CMOS DIP Switch
AT-ATX	1*AT-ATX DIP Switch
HDMI	1*HDMI output, up to 4K
Ethernet	2*LAN, 10M/100M/1000M adaptive Ethernet, 3G/4G customized
Audio	1*Audio I/O, Support audio input and output
Serial port	2*COM (The default is RS232, optional RS485/RS422)
Wi-Fi antenna	2*Wi-Fi antenna
Speaker	2*(8Ω2W)
Grounding	1*GND

Reliability Parameter

Operating temperature	-10°C~60°C (-20°C~70°C can be customized)
Storage temperature	-20°C~70°C
Relative humidity	95% non-condensing